

Geological Society of Minnesota

NEWS

Geological Society of Minnesota



MINNEAPOLIS, MINNESOT

FIRST CLASS

122 122

EDITORS:
GEORGE AND GOLDIE JOHNSON
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PLEASE FORWARD

LOWE, Dr. Alex & Marlys 2206 Caroline Lane South St. Paul, MN 55075



Geological Society of Minnesota

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NEWSLETTER: August, September, October 1986

FROM THE DESK OF ...

arren Mitchell

Orecling from the Geological Society of Minneasts! This newsletter is being sent to the sembers of the Society and to make the sent of the Society and to the sembers of the Society and to the sent of the Society and the sent of the se

Dut Spekher program starts this Ostober. Dick Uthe has put together a program which should be of interest to all of the put together a program which should be of interest to all of the put together and together

Finally, in looking to the future, I want to point out that our 50th year will soon be upon us. The Geological Society was organized on October 28, 1938 under the leadership of Edward Burch, and a few of our members have been with the Society since that time. I hope that we can have a grand 50th pirchiday party with all the members, past and present, in two year.

See you then, Warren

Newsletter - Autumn 1986 - Page Two



ONE MORE FIELD TRIP THIS FALL - - -

Mid-Continent Rift -- Taylors Falls to Stillwater

Sunday, September 14 - Leader: Howard Mooers, Dept. of

Observations will be made of the mid-continent rift, the basalts, the paleozoic and sedimentary rock formation. Meet at 9:00 am at the Macalaster Geology Building parking lot. For more information, call Marlys [Lease (AEI-AFGE)]

"I thought continental drift was much slower."

LOTS OF FOLKS INTERESTED IN EARTH SCIENCES!

Greeting fair-goers at our booth were some new, some old members. They told those who stopped about the Society, gave out our programs, and invited all to come and see for themselves. As always, there were questions about oil and gold in Minnesota. This year we were able to refer them to two recent Geological Survey publications. Helping at the booth were 35 members, some for more than one four-hour period: Virginia Baker, Grace Benz (2), Walt Blowers, Irene Carlson, Martha Collier, Les Collins, Francine Corcoran (3), Henry and Harjoric Gangi (2), Bob Gunville, Bob Handschin (3), Dale and Wilma Johnson, George and Goldie Johnson, Mary Kimball (2), Frank Larimore, Paul Lemke, Alex and Marlys Lowe (2), Warren and Jan Hithell; Conrad Melson, Jack Mesheim(2), Mary Galen O'Connor, Clarence and Liz Ooten, Jerry Roth and son, Allan Siekmeier, Mike Solveson, Karen Sorensen, Beatrice Tangen, and Don and Betty Wheeler.

Meeting Fair-goers is always good fun, which some of you may want to try next year!



1986 FAIR BOOTH BEST EVER!!

This year's exhibit was the largest and most attractive in our 26 years at the Fair. It drew nearly 1600 persons to get our 1966-87 programs, of whom 700 signed up for a free copy of our newsletter. The Fair has long been an important source of newcomers for

For those who didn't see it, half was titled "Continents on the Move...Join Us This Fall and Winter as We Discover Plate Technonics". Drawings of the continents adrift were by Dick Selander. The other half was inviting: "Summer Travels.,Join Us on Geological Adventures". It had a dozen beautiful enlargements of field-trip snapshots featuring the recent trip to Glacier National Park as well as to various places in Minnesota. Jeff Garry made the enlargements from his own and others' pictures.

Layout and signs were made by President Warren Mitchell. Helping him put up and take down the exhibit were Alex Lowe, Mary Kimball, Dwight Robinson, Clarence & Liz Ooten & Bob Handschin. Our Exhibits Committee, Eva Selander, Chair, planned the display, and Dwight Robinson prepared the winter programs.



TIME TO RENEW YOUR MEMBERSHIP - - -

Our membership year begins October 1, and we need to receive dues early in the program year to meet expenses for our lecturers, program printing, rosters, newsletters and other activities. Our dues are a BIG BARGAIN considering the dozen lectures, lab sessions, workshops, and field trips (which are for members only).

An opportunity will be given for you to renew your membership at the annual meeting September 22. Others will want to become members early in the fall so we will avoid spending time and money or requests later.

As we head into our 49th session, remember its your membership support that keeps the Society going!! Thanks for early action.

Bob Handschin, Membership Chairman

(Regular dues are \$10 - single; \$15 - couples; \$3 - student/ full time; Associate dues - \$7 and \$10 for those unable to attend lecturers. See also backside of printed program.)

ANNUAL MEETING TO BE AT VIKING VILLAGE



This year's Annual Meeting of the Geological Society of Minnesota will be held at the

Viking Village Smorgasbord 510 Snelling Avenue North (Snelling and University)

on Monday evening, September 22 at 7:30 pm

Members and guests who wish to attend dinner should plan to come around 6:00 pm so that we may proceed promptly with the business and program at 7:30 pm.

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The meeting will include the election of board members. The following have been nominated:

For a first term: Ed Huppler, Martha Collier, and

For a second term: Bob Gunville

Additional nominations may be made from the floor.

The program will include a review of the year's activities, treasurer's report and announcement of the lecture program for the coming year. From a sampling of the excellent photos at the State Fair exhibit, a slide review of past summer's field trips will provide an educational and entertaining evening as well. For those of us who missed some or all of the trips, we are looking forward to this ever popular event in the activity of the Beological Society of Minnesota.

St. Paul





For those of you who will be coming to the GSM meetings for the first time to take part in what will be a very exciting carias on

"PLATE TECTONICS. FARTH'S BIGGEST CONSTRUCTION DDO IECT#

should allow some extra time to park and walk from a parking area if you are driving. The University parking is best and cheapest in the north lots on 4th Street S. E., north of University Avenue. Other parking is available under Northrup Auditorium, Coffman Union, and Mayo Auditorium, and on River Road East. Parking next to the new University Radisson Hotel on Washington Avenue is expensive. Bus service is available on Washington Avenue.

The Physics Building faces on the Mall in front of Northrup Auditorium, and is on Church Street (the same as 17th Avenue S. F.)

The Public Service Committee, with Marion Marien as the Chairperson, has been meeting with representatives of the Department of Transportation (MN) and the Minnesota Geological Survey to plan a display at the 1-94 Visiter Center at the state border near Hudson, Wisconsin

Several themes have been explored. They have now narrowed it down to just a few. We are excited about this development. We will be reporting on this in more detail in a future newsletter.

Great work Public Service Committee!



Peanuts by Charles Schulz













FOR RELEASE: September 6 through November 23, 1986 CONTACT: Rodney M. Nerdahl (612)372-6644

The Minneapolis Planetarium Launches Outer Planets Program

THE VOYAGER ODYSSEY

We live in the greatest age of exploration the world has ever known. This is the time when humans have begun to sail the sea of space. We are earthbound no longer. Within a single generation, we have set foot upon a nearby island in space and sent scouts to still more distant shores. In this age of exploration, we no longer wait for new Magellans to return with their travelers tales. Where they go - we go. What they see - we see. In this age, we are all voyagers...

This is the story of an epic journey - a saga whose heroes have blazed a trail of discovery and exploration unmatched in history. Using spectacular spacecraft images, realistic simulations of planetscapes observed by the Voyagers, and computer generated film sequences showing the spacecraft's itinerary during major mission events, the program follows the flights of both spacecraft, revealing their discoveries during each planetary encounter. Among the program highlights will be a film excerpt of Jupiter's rotation compiled from nearly 3,500 individual Voyager images and footage prepared from the recent Uranus flyby.

 $\underline{\text{THE VOYAGER ODYSSEY}} \text{ is a production of the staff of The Minneapolis Planetarium.}$

Admission: Adults \$2.50 - Children 2 to 12 years \$1.25 - Children under 2 free Showtimes: Saturdays 11am, 2pm, 3pm; Sundays 2pm, 3pm; Thursday evening 7:30pm Special showings during State Teachers Convention October 16 and 17, 11am, 2pm

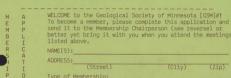
STTY OF MINNESOTA, MPLS CAMPUS SFREES. >PHYSICS BUILDING, ROOM 131/TRA* PUBLIC.

22 Sep 86 ANNUAL MEETING: Viking Village, Snelling Avenue, St. Paul. Dinner: 6:00 p.m.: Meeting: 7:30 p.m.

>MONDAY EVENINGS: 7:30 P.M. MEL COME !

		PLAT	TE TECTONICS: EARTH'S BIGGEST CONSTRUCTION PROJECT	
6	Oct	86	DOWN TO EARTH FOUNDATIONS OF PLATE TECTONICS (P.	T.)
20	Oct	86	2 lectures by Henry Lepp, Macalester College	ROOM 131
			ABC'S OF PLATE TECTONICS By faculty from the University of Minnesota	
3	Nov	86	HISTORY/EVIDENCE - THE P.T. IDEA, Peter Hudleston	131
17	Nov	86	PROCESSES OF P.T., George Shaw	131
1	Dec	86	STRUCTURAL EXPRESSIONS OF P.T., Peter Hudleston	131
	Jan		EXOTIC TERRAINS OF NORTH AMERICA: EAST & WEST 2 lectures by Karen Kleinspehn	TBA*
26	Jan	87		TBA*
	-		LIFE AND PLATE TECTONICS	
9	Feb	87	P.T. & EVOLUTION: BASIC RELATIONSHIPS	TBA*
23	Feb	87	EVOLUTIONARY TRENDS: PRECAMBRIAN & PALEOZOIC Nancy Pickett, U of Wisconsin-Eau Claire	TBA*
9	Mar	87	EVOLUTIONARY TRENDS: MESOZOIC & CENOZOIC Nancy Pickett	TBA*
	-		ORE DEPOSITS AND PLATE TECTONICS	
23	Mar	87	WATER & HEAT AT MID-OCEAN RIDGES William Seyfried, University of Minnesota	TBA*
6	Apr	87	ORE DEPOSITS & CONVERGENT MARGINS Sam Sawkins, University of Minnesota	TBA*
27	Apr	 87	SPRING BANQUET	





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#GSM is a non-profit organization existing only through its members.



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. Rock Units		200
Permetion	Lithology	THE GEOLOGICAL SOCIETY OF MINNESOTA is an organizati
CEDAR VALLEY		Interested in the story of the earth, what it is a and how it is put together. Geology, the study of earth over billions of years of constant change is cinating to many people. Members of the Geologics Society are such people.
MAQUOKETA		
DUBUQUE		LECTURES are scheduled on alternate Mondays, October - Apr
GALENA	有结	7:30 p.m. in a lecture hall on the University of Minnesc Campus. Generally, one area of study is pursued in dept several meetings by one or more professional, local geol
DECORAH	Control of the last of the las	who provide stimulating presentations geared to interest
PLATTEVILLE	TI TO THE	professionals. A discussion session with refreshment is
GLENWOOD		during each presentation. Also, specimens may be brough
ST. PETER SANDSTONE		for identification and discussion.
	ACCOUNT OF THE PARTY OF THE PAR	LABORATORY SESSIONS are held whenever possible on alte
SHAKOPEE		Mondays throughout the lecture series. These are in hands-on learning experiences also structured for the professional level of understanding and interest.
ONEOTA DOLOMITE		
JORDAN SANDSTONE		FIELD TRIPS during the summer fill out the schedule. are led by geology professors or field geologists lead trips to their special areas of interest. The
ST LAWRENCE	11/2/2/2	trips provide first-hand encounters with earth pro
FRANCONIA		forming the landscape. Members learn to observe a evaluate these processes.
IRONTON SS	The same	THE SOCIETY aims to further understanding of geol
GALESVILLE SANDSTONE		the public especially the geology of Minnesota. this end, 33 roadside plaques have been written
EAU CLAIRE		installed under the sponsorship of the society each year exhibits on the State's geology are p
MT SIMON SANDSTONE	- 7	sented at the Minnesota State Fair. Club membe serve as speakers at schools and meetings of ot local organizations. Educational efforts are o
HINCKLEY	Brooking Marine S.	1838
FOND du LAC	and the second	MEMBERS OF THE SOCIETY come from all walks of life
IGNEOUS and META- MORPHIC Bearment Rooks		age groups. No particular scientific training ground is necessary. Members are united by the enthusiasm for geology as an absorbing intelled activity and stimulation hobby.

240/73 115/35 190 56 ogy by 45/18 95/29 315/96 and

dues payable any time beginning with the fall Annual Meeting. Membership inities.

	ciudes subscript:	ion to the newsie	tter	covering	the	society's	various	acti
	We invite you to	participate!		Membe	rs	nip		
Ī	Membership	Chairperso	n	REGULAR			D OTHER	

Official Address

Mary Kimball (612) 644-6429 1711 Marshall Avenue St. Paul, MN 55104

Sustaining \$ 25.00 Supporting \$ 50.00 Guarantor \$ 100.00 Student/Full Time

Couples

*Associate membership is made available to those who dud to health, location or financial status are unable to participate fully or sustain a regular membership